

### **Abstract**

A decision engine decides whether to assign a service line to be active or in standby mode with a very simple decision logic that is based on a comparison between two numbers that are created through the setting of bits in two registers. The logic of the  
5 decision engine is embedded in a combination of a filter that either accepts or rejected applied stimuli, and a table that acts on accepted stimuli by the setting and resetting of bits in the two registers in accordance with a unique specification.